*RETURN TO FMF - LOCATION 7540 PRE-EDIT

QUERY CONTROL FORM				RTIS USE ONLY	
Application No.	10 029 221	Prepared by	AMW	Tracking Number	
Examiner-GAU	H.T. PARK – 1648	Date	5-21-04	Week Date	
		No. of queries	2 (CA)		

JACKET			
a. Serial No.	f. Foreign Priority	k. Print Claim(s)	p. PTO-1449
b. Applicant(s)	g. Disclaimer	l. Print Fig.	q. PTOL-85b
(c) Continuing Data	h. Microfiche Appendix	m. Searched Column	r. Abstract
d. PCT	i. Title	n. PTO-270/328	s. Sheets/Figs
e. Domestic Priority	j. Claims Allowed	o. PTO-892	t. Other

SPECIFICATION

a. Page Missing
b. Text Continuity
c. Holes through Data
d. Other Missing Text
(e) Illegible Text
f. Duplicate Text
g. Brief Description
h. Sequence Listing
i. Appendix
j. Amendments
k. Other

CLAIMS

a. Claim(s) Missing
b. Improper Dependency
c. Duplicate Numbers
d. Incorrect Numbering
e. Index Disagrees
f. Punctuation
g. Amendments
h. Bracketing
i. Missing Text
j. Duplicate Text
k. Other

MESSAGE ① ILLEGIBLE TEXT in table on page 141: Please supply a replacement page 141.

② CONTINUING DATA on bib sheet matches that on spec. (per Amdt of 04-04-02) page 1, lines 6-28, but the 2 subsequent paragraphs cite additional data NOT appearing in PALM bib. database for this appl. (Please see page 1, line 30 through page 2, line 10.) Please reconcile.

THANK YOU.

initials AMW

RESPONSE Replacement page is submitted by the inventor.

initials

Exonucleases

Enzyme Name (exemplary commercial source & other comments)	5'→3' Exonuclease	3'→5' Exonuclease	5'→3' Polymerase	Strand Displacement	Km dNTPs
$Vent_R$ DNA Polymerase[a]	No	Yes	Yes	Yes[e]	60 μM[e]
Deep $Vent_R$ DNA Polymerase[a]	No	Yes	Yes		50 μM[e]
E. coli DNA Polymerase I[b]	Yes	Yes	Yes	No	1–2 μM[f]
Klenow Fragment DNA Polymerase I[b]	No	Yes	Yes	Yes	2 μM[g]
T4 DNA Polymerase[a]	No	Yes	Yes	No	2 μM[h]
T7 DNA Polymerase[a]	No	Yes	Yes	No	18 μM[i]
Taq DNA Polymerase[b]	Yes	No	Yes	No	13 μM[e]
Mung Bean Nuclease[bk]	No	Yes	Yes		
S1 Nuclease[bm]	No	Yes	Yes		
Pfu DNA Polymerase[b]	No	Yes	Yes		
Tli DNA Polymerase[b]	No	Yes	Yes		
rBst DNA Polymerase[c]	Yes	No	Yes		
Pwo DNA Polymerase[d]	No	Yes	Yes		
Exonuclease I[c]	No	Yes			
Exonuclease III[c]	No	Yes			

a. Stratagene
b. Promega
c. Epicenter
d. Roche
e. Kong, H.M., Kucera, R.B., and Jack, W.E., (1993) *J. Biol. Chem.* 268, 1965–1975.
f. McClure, W.R. and Jovin, T.M., (1975) *J. Biol. Chem* 250, 4073–4080.
g. Polesky A.H., Steitz, T.A., Grindley, N.D.F. and Joyce, C.M., (1990) *J. Biol. Chem.* 265, 14579–14591.
h. Gillin, F.D. and Nossal, N.G., (1975) *Biochem. Biophys. Res. Commun.* 64, 457–464.
i. Patel, S.S., Wong, E. and Johnson, K.A., (1991) *Biochemistry* 30, 511–525.
k. exhibits some double-stranded exonuclease activity from both ends at higher concentrations of enzyme
m. exhibits some double-stranded exonuclease activity at higher concentrations of enzyme